

## EAST Search History

| Ref # | Hits | Search Query                       | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|------------------------------------|--|------------------|---------|------------------|
| L2    | 43   | 473/30.ccls.                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/23 12:14 |
| L3    | 575  | 463/30.ccls.                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/08/23 12:14 |
| L4    | 126  | (473/221).CCLS.                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR               | OFF     | 2007/08/23 12:15 |
| L5    | 22   | L4 AND (infrared OR ultra?sonic)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | AND              | ON      | 2007/08/23 12:15 |
| L6    | 22   | L4 AND (infrared OR ultra\$1sonic) | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | AND              | ON      | 2007/08/23 12:15 |
| L7    | 1    | 11290496a                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR               | ON      | 2007/08/23 12:15 |
| L8    | 4    | "4630829".pn. "5718639".pn.        | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR               | ON      | 2007/08/23 12:15 |
| L9    | 4    | ("3938809").PN.                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR               | OFF     | 2007/08/23 12:15 |
| L10   | 3    | ("3784207").PN.                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR               | OFF     | 2007/08/23 12:15 |
| L11   | 2    | ("4086630").PN.                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR               | OFF     | 2007/08/23 12:15 |
| L12   | 0    | ("2005/0197198").URPN.             | USPAT  | OR               | ON      | 2007/08/23 12:15 |

## EAST Search History

|     |    |  |  |     |    |                  |
|-----|----|--|--|-----|----|------------------|
| L13 | 0  | ("2005/0197198").URPN.   | USPAT                                    | OR  | ON | 2007/08/23 12:15 |
| L14 | 2  | ("2004/0137997").URPN.   | USPAT                                    | OR  | ON | 2007/08/23 12:15 |
| L15 | 1  | ("2004/0127304").URPN.   | USPAT                                    | OR  | ON | 2007/08/23 12:15 |
| L16 | 15 | ("20040127304"   "20040137999"  <br>"20050130755"   "20050202893"  <br>"3870314"   "4130283"   "4451043"<br>  "4971325"   "5156398"  <br>"5593355"   "5885168"   "6106409"<br>  "6616556"   "6793585"  <br>"6821210").PN. OR ("7104900").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON | 2007/08/23 12:15 |
| L17 | 3  | L16 emitter  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON | 2007/08/23 12:15 |
| L18 | 3  | L16 infrared   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON | 2007/08/23 12:15 |
| L19 | 20 | ("2897674"   "3187578"   "3380305"<br>  "3677552").PN. OR ("3870314").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON | 2007/08/23 12:15 |
| L20 | 2  | L16 ultra\$sonic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON | 2007/08/23 12:15 |
| L21 | 29 | ("3953034"   "4146230"   "4304406"<br>  "4306722"   "4451043"  <br>"4456257"   "4502035"   "4693479"<br>  "4758000"   "4858934").PN. OR<br>("4971325").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON | 2007/08/23 12:15 |
| L22 | 25 | ("2571974"   "3024453"   "3870314"<br>  "3880432"   "3934874"  <br>"3936055"   "4130283"   "4304406"<br>  "4327918").PN. OR ("4451043").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON | 2007/08/23 12:15 |
| L23 | 13 | L22 AND (emitter infrared sensor<br>ultra\$sound)  | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON | 2007/08/23 12:15 |
| L24 | 37 | ("3415517"   "3678495"   "3948522"<br>  "4090707"   "4094504"  <br>"4101132"   "4138118"   "4141549"<br>  "4257594"   "4383690").PN. OR<br>("4822042").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON | 2007/08/23 12:15 |
| L25 | 25 | ("2571974"   "3024453"   "3870314"<br>  "3880432"   "3934874"  <br>"3936055"   "4130283"   "4304406"<br>  "4327918").PN. OR ("4451043").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON | 2007/08/23 12:15 |

## EAST Search History

|     |      |  |  |     |    |                  |
|-----|------|--|--|-----|----|------------------|
| L26 | 43   | ("3194563"   "3601408"   "3778064"<br>  "3892414"   "4137566"  <br>"4155555"   "4163941"   "4180726"<br>  "4251077"   "4254956"  <br>"4304406"   "4342456"   "4542906"<br>  "4615526"   "4652121"  <br>"4767121"   "4770527"   "4844469"<br>  "4858934"   "4958836"  <br>"4971325"   "4979745"   "4991850"<br>  "5056791"   "5154427"  <br>"5245320"   "5257084"   "5269519"<br>  "5342054"   "5472205"  <br>"D365620").PN. OR ("5718639").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON | 2007/08/23 12:15 |
| L27 | 25   | ("4106772"   "4146230"   "4254956"<br>  "4342455"   "4971325"  <br>"4991850"   "5067717"   "5114150"<br>  "5209483"   "5368042"  <br>"5472205"   "5474298"   "5685782"<br>  "5697791"   "5718639"  <br>"5826874"   "5836829"   "5882269"<br>  "5907819"   "5935014"  <br>"5976022"   "6227984"  <br>"6302802").PN. OR ("6821211").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON | 2007/08/23 12:15 |
| L28 | 0    | ("2005/0197198").URPN.   | USPAT                                    | OR  | ON | 2007/08/23 12:15 |
| L29 | 1020 | golf ultra\$1sonic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON | 2007/08/23 12:15 |
| L30 | 370  | L29 infrared   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON | 2007/08/23 12:15 |
| L31 | 235  | L30 controller   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON | 2007/08/23 12:15 |
| L32 | 14   | L31 photodiode   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON | 2007/08/23 12:15 |
| L33 | 0    | ("2005/0064948").URPN.   | USPAT                                    | OR  | ON | 2007/08/23 12:15 |
| L34 | 1028 | ("473/198"   "473/199"   "473/209"<br>  "473/219"   "473/220"   "473/225"<br>  "473/236"   "473/237"  <br>"473/257").ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | ON | 2007/08/23 12:15 |

## EAST Search History

|     |     |   |  |      |     |                  |
|-----|-----|---|--|------|-----|------------------|
| L35 | 278 | L34 (trigg\$5 OR activat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON  | 2007/08/23 12:15 |
| L36 | 37  | L35 (micro\$1controller OR controller)                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON  | 2007/08/23 12:15 |
| L37 | 983 | golf acoustic\$3 (emitt\$3 OR light OR infrared OR sensor OR detect\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON  | 2007/08/23 12:15 |
| L38 | 399 | L37 controller  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON  | 2007/08/23 12:15 |
| L39 | 44  | (473/198).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | OFF | 2007/08/23 12:15 |
| L40 | 18  | L34 ultra\$1sonic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON  | 2007/08/23 12:15 |
| L41 | 13  | L35 ultra\$1sonic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON  | 2007/08/23 12:15 |
| L42 | 0   | ("2005/0064948").URPN.  | USPAT                                    | OR   | ON  | 2007/08/23 12:15 |
| L43 | 2   | ("5481355").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | OFF | 2007/08/23 12:15 |
| L44 | 2   | golf swing analyz\$5 software   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | ADJ  | ON  | 2007/08/23 12:15 |
| L45 | 2   | ("6821211").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | OFF | 2007/08/23 12:15 |
| L46 | 43  | golf swing software   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | WITH | ON  | 2007/08/23 12:15 |
| L47 | 0   | golf swing software   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | NEAR | ON  | 2007/08/23 12:15 |

## EAST Search History

|     |      |   |  |      |    |                  |
|-----|------|---|--|------|----|------------------|
| L48 | 3    | player stands swing   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | ADJ  | ON | 2007/08/23 12:15 |
| L49 | 1332 | golf stance base  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON | 2007/08/23 12:15 |
| L50 | 4    | L49 grid adj surface  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON | 2007/08/23 12:15 |
| L51 | 0    | player stands to swing  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | ADJ  | ON | 2007/08/23 12:15 |
| L52 | 81   | golf stance base  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | WITH | ON | 2007/08/23 12:15 |
| L53 | 358  | golf stance base  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | SAME | ON | 2007/08/23 12:15 |
| L54 | 495  | ("473/218"   "473/217"   "473/266"<br>  "473/270"   "473/271"  <br>"473/273").ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | ON | 2007/08/23 12:15 |
| L55 | 0    | L54 AND checkered   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | ON | 2007/08/23 12:15 |
| L56 | 0    | L54 AND checkerd  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | ON | 2007/08/23 12:15 |
| L57 | 30   | L54 AND grid  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | ON | 2007/08/23 12:15 |
| L58 | 1    | L54 AND grid near surface   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | ON | 2007/08/23 12:15 |
| L59 | 1    | ("2004/0127304").URPN.  | USPAT                                    | OR   | ON | 2007/08/23 12:15 |

## EAST Search History

|     |     |  |  |     |     |                  |
|-----|-----|--|--|-----|-----|------------------|
| L60 | 15  | ("20040127304"   "20040137999"   "20050130755"   "20050202893"   "3870314"   "4130283"   "4451043"   "4971325"   "5156398"   "5593355"   "5885168"   "6106409"   "6616556"   "6793585"   "6821210").PN. OR ("7104900").URPN. | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON  | 2007/08/23 12:15 |
| L61 | 4   | ("3938809").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | OFF | 2007/08/23 12:15 |
| L62 | 3   | L60 emitter  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L63 | 3   | L60 infrared   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L64 | 20  | ("2897674"   "3187578"   "3380305"   "3677552").PN. OR ("3870314").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON  | 2007/08/23 12:15 |
| L65 | 2   | L60 ultra\$1sonic  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L66 | 29  | ("3953034"   "4146230"   "4304406"   "4306722"   "4451043"   "4456257"   "4502035"   "4693479"   "4758000"   "4858934").PN. OR ("4971325").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON  | 2007/08/23 12:15 |
| L67 | 2   | ("2004/0137997").URPN.   | USPAT                                    | OR  | ON  | 2007/08/23 12:15 |
| L68 | 25  | ("2571974"   "3024453"   "3870314"   "3880432"   "3934874"   "3936055"   "4130283"   "4304406"   "4327918").PN. OR ("4451043").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON  | 2007/08/23 12:15 |
| L69 | 1   | 11290496a  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | ON  | 2007/08/23 12:15 |
| L70 | 126 | (473/221).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | OFF | 2007/08/23 12:15 |

## EAST Search History

|     |     |  |  |     |     |                  |
|-----|-----|--|--|-----|-----|------------------|
| L71 | 22  | L70 AND (infrared OR ultra\$1sonic)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L72 | 0   | ("2005/0197198").URPN.   | USPAT                                    | OR  | ON  | 2007/08/23 12:15 |
| L73 | 0   | ("2005/0197198").URPN.   | USPAT                                    | OR  | ON  | 2007/08/23 12:15 |
| L74 | 13  | L68 AND (emitter infrared sensor<br>ultra\$sound)  | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON  | 2007/08/23 12:15 |
| L75 | 126 | (473/221).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | OFF | 2007/08/23 12:15 |
| L76 | 22  | L70 AND (infrared OR ultra?sonic)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L77 | 4   | "4630829".pn. "5718639".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | ON  | 2007/08/23 12:15 |
| L78 | 2   | ("4086630").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | OFF | 2007/08/23 12:15 |
| L79 | 25  | ("2571974"   "3024453"   "3870314"<br>  "3880432"   "3934874"  <br>"3936055"   "4130283"   "4304406"<br>  "4327918").PN. OR ("4451043").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON  | 2007/08/23 12:15 |
| L80 | 37  | ("3415517"   "3678495"   "3948522"<br>  "4090707"   "4094504"  <br>"4101132"   "4138118"   "4141549"<br>  "4257594"   "4383690").PN. OR<br>("4822042").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON  | 2007/08/23 12:15 |
| L81 | 43  | ("3194563"   "3601408"   "3778064"<br>  "3892414"   "4137566"  <br>"4155555"   "4163941"   "4180726"<br>  "4251077"   "4254956"  <br>"4304406"   "4342456"   "4542906"<br>  "4615526"   "4652121"  <br>"4767121"   "4770527"   "4844469"<br>  "4858934"   "4958836"  <br>"4971325"   "4979745"   "4991850"<br>  "5056791"   "5154427"  <br>"5245320"   "5257084"   "5269519"<br>  "5342054"   "5472205"  <br>"D365620").PN. OR ("5718639").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON  | 2007/08/23 12:15 |

## EAST Search History

|     |      |  |  |     |     |                  |
|-----|------|--|--|-----|-----|------------------|
| L82 | 25   | ("4106772"   "4146230"   "4254956"   "4342455"   "4971325"   "4991850"   "5067717"   "5114150"   "5209483"   "5368042"   "5472205"   "5474298"   "5685782"   "5697791"   "5718639"   "5826874"   "5836829"   "5882269"   "5907819"   "5935014"   "5976022"   "6227984"   "6302802").PN. OR ("6821211").URPN. | US-PGPUB;<br>USPAT;<br>USOCR             | OR  | ON  | 2007/08/23 12:15 |
| L83 | 0    | ("2005/0197198").URPN.   | USPAT                                    | OR  | ON  | 2007/08/23 12:15 |
| L84 | 1020 | golf ultra\$1sonic   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L85 | 370  | L84 infrared   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L86 | 3    | ("3784207").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | OFF | 2007/08/23 12:15 |
| L87 | 235  | L85 controller   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L88 | 14   | L87 photodiode   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L89 | 0    | ("2005/0064948").URPN.   | USPAT                                    | OR  | ON  | 2007/08/23 12:15 |
| L90 | 1028 | ("473/198"   "473/199"   "473/209"   "473/219"   "473/220"   "473/225"   "473/236"   "473/237"   "473/257").cccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR  | ON  | 2007/08/23 12:15 |
| L91 | 278  | L90 (trigg\$5 OR activat\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L92 | 37   | L91 (micro\$1controller OR controller)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |
| L93 | 983  | golf acoustic\$3 (emitt\$3 OR light OR infrared OR sensor OR detect\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND | ON  | 2007/08/23 12:15 |



## EAST Search History

|      |     |                               |  |      |     |                  |
|------|-----|-------------------------------|--|------|-----|------------------|
| L94  | 399 | L93 controller                | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON  | 2007/08/23 12:15 |
| L95  | 44  | (473/198).CCLS.               | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | OFF | 2007/08/23 12:15 |
| L96  | 18  | L90 ultra\$1sonic             | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON  | 2007/08/23 12:15 |
| L97  | 13  | L91 ultra\$1sonic             | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | AND  | ON  | 2007/08/23 12:15 |
| L98  | 0   | ("2005/0064948").URPN.        | USPAT                                    | OR   | ON  | 2007/08/23 12:15 |
| L99  | 2   | ("5481355").PN.               | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | OFF | 2007/08/23 12:15 |
| L100 | 2   | golf swing analyz\$5 software | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | ADJ  | ON  | 2007/08/23 12:15 |
| L101 | 2   | ("6821211").PN.               | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | OR   | OFF | 2007/08/23 12:15 |
| L102 | 0   | player stands to swing        | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | ADJ  | ON  | 2007/08/23 12:15 |
| L103 | 43  | golf swing software           | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | WITH | ON  | 2007/08/23 12:15 |
| L104 | 81  | golf stance base              | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | WITH | ON  | 2007/08/23 12:15 |
| L105 | 0   | golf swing software           | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | NEAR | ON  | 2007/08/23 12:15 |
| L106 | 3   | player stands swing           | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT | ADJ  | ON  | 2007/08/23 12:15 |

## EAST Search History

|      |      |   |  |      |    |                  |
|------|------|---|--|------|----|------------------|
| L107 | 1332 | golf stance base  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | AND  | ON | 2007/08/23 12:15 |
| L108 | 4    | L107 grid adj surface   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | AND  | ON | 2007/08/23 12:15 |
| L109 | 358  | golf stance base  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | SAME | ON | 2007/08/23 12:15 |
| L110 | 495  | ("473/218"   "473/217"   "473/266"<br>  "473/270"   "473/271"  <br>"473/273").ccls.                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR   | ON | 2007/08/23 12:15 |
| L111 | 0    | L110 AND checkered  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR   | ON | 2007/08/23 12:15 |
| L112 | 0    | L110 AND checkerd   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR   | ON | 2007/08/23 12:15 |
| L113 | 30   | L110 AND grid   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR   | ON | 2007/08/23 12:15 |
| L114 | 1    | L110 AND grid near surface  | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                   | OR   | ON | 2007/08/23 12:15 |
| L115 | 4    | ((("infra red" infrared "infra-red")<br>same ("ultra sonic" "ultra-sonic"<br>ultrasonic) same golf) and<br>@ad<"20020723" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/08/23 12:15 |
| L116 | 79   | 473/221.ccls. and @ad<"20020723"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/08/23 12:15 |

## EAST Search History

|      |      |   |  |    |    |                  |
|------|------|---|--|----|----|------------------|
| L117 | 0    | (advantage\$3 or benefit) same ("ultra sonic" "ultra-sonic" ultrasonic) and "463"/\$.ccls.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/23 12:15 |
| L118 | 2036 | (advantage\$3 or benefit) same ("ultra sonic" "ultra-sonic" ultrasonic)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/23 12:15 |
| L119 | 0    | (advantage\$3 or benefit) same ("ultra sonic" "ultra-sonic" ultrasonic) and "473"/\$.ccls.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/23 12:15 |
| L120 | 2    | (advantage\$3 or benefit) same ("ultra sonic" "ultra-sonic" ultrasonic) and "273"/\$.ccls.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/23 12:15 |
| L121 | 10   | (advantage\$3 or benefit) same ("infra red" infrared "infra-red") and "273"/\$.ccls.                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/23 12:15 |
| L122 | 0    | ((advantage\$3 or benefit) same ("virtual line") same (gun)) and ("273"/\$.ccls. "473"/\$.ccls. "463"/\$.ccls.)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/23 12:15 |
| L123 | 0    | ((advantage\$3 or benefit) same (virtual near2 line) same (gun)) and ("273"/\$.ccls. "473"/\$.ccls. "463"/\$.ccls.) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/23 12:15 |

## EAST Search History

|      |       |   |  |    |     |                  |
|------|-------|---|--|----|-----|------------------|
| L124 | 0     | ((advantage\$3 or benefit) same (virtual near2 line) same (gun))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/08/23 12:15 |
| L125 | 1     | deodhar.xa.   | USPAT  | OR | ON  | 2007/08/23 12:15 |
| L126 | 2     | banta.xa.   | USPAT  | OR | ON  | 2007/08/23 12:15 |
| L127 | 195   | thomas-eric.xa.   | USPAT  | OR | ON  | 2007/08/23 12:15 |
| L128 | 0     | utama.xa.   | USPAT  | OR | ON  | 2007/08/23 12:15 |
| L129 | 239   | laneau.xp. laneau.xa.   | USPAT  | OR | ON  | 2007/08/23 12:15 |
| L130 | 216   | laneau.xa.  | USPAT  | OR | ON  | 2007/08/23 12:15 |
| L131 | 23    | laneau.xp. "laneau.xa"  | USPAT  | OR | ON  | 2007/08/23 12:15 |
| L132 | 23    | laneau.xp. "laneau.xa"  | USPAT  | OR | ON  | 2007/08/23 12:15 |
| L133 | 45    | mosser.xa.  | USPAT  | OR | ON  | 2007/08/23 12:15 |
| L134 | 0     | ("6609972.pn.").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/08/23 12:15 |
| L135 | 3     | ("6609972").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/08/23 12:15 |
| L136 | 35102 | ((("infra red" infrared "infra-red") ("ultra sonic" "ultra-sonic" ultrasonic)) same puls\$5) and @ad<"20020723" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/08/23 12:15 |
| L137 | 35102 | ((("infra red" infrared "infra-red") ("ultra sonic" "ultra-sonic" ultrasonic)) same puls\$5) and @ad<"20020723" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/08/23 12:15 |

## EAST Search History

|      |     |   |  |    |    |                  |
|------|-----|---|--|----|----|------------------|
| L138 | 225 | L137 and ("463"/\$.ccls. "273"/\$.ccls. "473"/\$.ccls.) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/08/23 12:15 |
|------|-----|---|--|----|----|------------------|